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Amendments to the Claims

This listing of the Claims will replace all prior versions and listings of the claims in this patent application.

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Listing of the Claims

Claims 1-42. (canceled)

43. (currently amended) A chip structure eirevit-component-comprising: 10

a silicon semiconductor substrate;

a resistor in said silicon substrate, wherein said resistor comprises silicon with a dopant;

a MOS device comprising a portion in said silicon substrate;

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a metallization structure over said silicon semiconductor substrate, wherein said metallization structure comprises a first metal layer and a second metal layer over said first metal layer;

a dielectric layer between said first and second metal layers;

a passivation silicon nitride layer over said metallization structure and over said

dielectric layer, wherein said passivation layer comprises silicon nitride; and

a circuit trace over said passivation silicon nitride layer, wherein said circuit trace is connected to said resistor. ; and

a-resistor-connected to said-circuit-trace.

44. (currently amended) The chip structure circuit component as claimed in claim 43, 25 wherein said resister-comprises silicon with a dopant comprises of boron.

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- 45. (currently amended) The chip structure circuit component as claimed in claim 43, wherein said resistor comprises silicon with a dopant comprises of phosphorous.
- 46. (currently amended) The chip structure circuit component as claimed in claim 43, wherein said resistor comprises silicon with a dopant comprises of arsenic.
 - 47. (currently amended) The chip structure eircuit component as claimed in claim 43, wherein said resister comprises silicon with a dopant comprises of gallium.
- 48. (currently amended) The <u>chip structure circuit component</u> as claimed in claim 43 further comprising a polymer layer between said <u>passivation silicon</u> nitride-layer and said circuit trace.
- 49. (currently amended) The chip structure eirouit component as claimed in claim 48, wherein said polymer layer comprises polyimide (PI).
 - 50. (currently amended) The chip structure circuit-component-as claimed in claim 48, wherein said polymer layer comprises benzocyclobutene (BCB).
- 51. (currently amended) The chip structure circuit component as claimed in claim 43 further comprising a polymer layer on said circuit trace.
 - 52. (currently amended) The chip structure eirouit component-as claimed in claim 51, wherein said polymer layer comprises polyimide (PI).
 - 53. (currently amended) The chip structure circuit component as claimed in claim 51, wherein said polymer layer comprises benzocyclobutene (BCB).

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- 54. (currently amended) The chip structure circuit component as claimed in claim 43, wherein said circuit trace comprises a copper layer.
- 5 55. (currently amended) The chip structure eirenit-component-as claimed in claim 54, wherein said circuit trace further comprises a nickel layer over said copper layer.
 - 56. (currently amended) The chip structure eircuit component as claimed in claim 54, wherein said circuit trace further comprises a gold layer over said copper layer.
 - 57. (currently amended) The chip structure eircuit-component-as claimed in claim 54, wherein said circuit trace further comprises a titanium-containing layer under said copper layer.
- 15 58. (currently amended) The chip structure eireuit component as claimed in claim 57, wherein said titanium-containing layer comprises tungsten.
- 59. (currently amended) The <u>chip structure eireuit component</u> as claimed in claim 54, wherein said circuit trace further comprises a chromium-containing layer under said copper layer.
 - 60. (currently amended) The chip structure virouit component as claimed in claim 43, wherein said circuit trace comprises a gold layer.
- 25 61. (currently amended) The chip structure eireuit-component as claimed in claim 60, wherein said circuit trace further comprises a titanium-containing layer under said gold copper-layer.

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- 62. (currently amended) The chip structure oircuit component as claimed in claim 61, wherein said titanium-containing layer comprises tungsten.
- 63. (currently amended) The chip structure circuit component as claimed in claim 43, wherein said metallization structure comprises aluminum.
 - 64. (currently amended) A chip structure circuit component comprising:

 a silicon substrate:

 a resistor in said silicon substrate, wherein said resistor comprises silicon with a dopant;
 - multiple a MOS-devices device comprising a portion in said silicon substrate; a metallization structure over said-multiple MOS-devices silicon substrate, wherein said metallization structure comprises a first metal layer and a second metal layer over said first metal layer;
- a dielectric layer between said first and second metal layers;

 a passivation layer over said metallization structure and over said dielectric layer; and
 - a circuit trace over said passivation layer, wherein said circuit trace is

 connected to said resistor, and wherein said circuit trace comprises a

 titanium-containing layer and a gold layer over said titanium-containing layer.; and

 a-resistor-connected-to-said-circuit-trace-
 - 65. (currently amended) The chip structure eireuit component as claimed in claim 64, wherein said resistor comprises silicon with a dopant comprises of boron.
 - 66. (currently amended) The chip structure eircuit component as claimed in claim 64, wherein said resistor comprises silicon with a dopant comprises of phosphorous.



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- 67. (currently amended) The chip structure oircuit-component as claimed in claim 64, wherein said resistor comprises silicon with a dopant comprises of arsenic.
- 68. (currently amended) The chip structure eircuit component as claimed in claim 64, wherein said resistor comprises silicon with a dopant comprises of gallium.
 - 69. (currently amended) The <u>chip structure virtuelle component</u> as claimed in claim 64 further comprising a polymer layer between said passivation layer and said circuit trace.
 - 70. (currently amended) The chip structure circuit-component-as claimed in claim 69, wherein said polymer layer comprises polyimide (PI).
- 71. (currently amended) The chip structure circuit component as claimed in claim 69, wherein said polymer layer comprises benzocyclobutene (BCB).
 - 72. (currently amended) The <u>chip structure circuit component</u> as claimed in claim 64 further comprising a polymer layer on said circuit trace.
- 73. (currently amended) The <u>chip structure circuit component</u> as claimed in claim 72, wherein said polymer layer comprises polyimide (PI).
 - 74. (currently amended) The chip structure eireuit-component as claimed in claim 72, wherein said polymer layer comprises benzocyclobutene (BCB).

Claims 75-82 (canceled)

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- 83. (currently amended) The chip structure circuit component as claimed in claim 64, 82, wherein said titanium-containing layer comprises tungsten.
- 84. (currently amended) The chip structure eirenit-component as claimed in claim 64, wherein said metallization structure comprises aluminum.

Claims 85-88 (canceled)

- 89. (new) A chip structure comprising:
- 10 a silicon substrate;
 - a resistor in said silicon substrate, wherein said resistor comprises silicon with a dopant;
 - a MOS device comprising a portion in said silicon substrate;
 - a metallization structure over said silicon substrate, wherein said metallization structure comprises a first metal layer and a second metal layer over said first metal layer;
 - a dielectric layer between said first and second metal layers;
 - a passivation layer over said metallization structure and over said dielectric layer; and
 - a circuit trace over said passivation layer, wherein said circuit trace is connected to said resistor, and wherein said circuit trace comprises a third metal layer and a copper layer over said third metal layer.
 - 90. (new) The chip structure as claimed in claim 89, wherein said dopant comprises boron.
 - 91. (new) The chip structure as claimed in claim 89, wherein said dopant comprises phosphorous.

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- 92. (new) The chip structure as claimed in claim 89, wherein said dopant comprises arsenic.
- 5 93. (new) The chip structure as claimed in claim 89, wherein said dopant comprises gallium.
 - 94. (new) The chip structure as claimed in claim 89 further comprising a polymer layer between said passivation layer and said circuit trace.
 - 95. (new) The chip structure as claimed in claim 94, wherein said polymer layer comprises polyimide (PI).
- 96. (new) The chip structure as claimed in claim 94, wherein said polymer layer comprises benzocyclobutene (BCB).
 - 97. (new) The chip structure as claimed in claim 89 further comprising a polymer layer on said circuit trace.
- 98. (new) The chip structure as claimed in claim 97, wherein said polymer layer comprises polyimide (PI).
 - 99. (new) The chip structure as claimed in claim 97, wherein said polymer layer comprises benzocyclobutene (BCB).
 - 100. (new) The chip structure as claimed in claim 89, wherein said third metal layer comprises titanium.

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- 101. (new) The chip structure as claimed in claim 89, wherein said third metal layer comprises chromium.
- 102. (new) The chip structure as claimed in claim 89, wherein said metallization structure comprises aluminum.